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(21) International Application Number: PCT/CA99/00637 (22) International Filing Date: 14 July 1999 (14.07.99) (30) Priority Data: 2,237,704 14 July 1998 (14.07.98) CA (71) Applicant (for all designated States except US): THE UNIVERSITY OF BRITISH COLUMBIA [CA/CA]; IRC Room 331, 2194 Health Sciences Mall, Vancouver, British Columbia V6T 1Z3 (CA). (72) Inventor; and (75) Inventor/Applicant (for US only): SMIT, John [US/CA]; 9960 Seacastle Drive, Richmond, British Columbia V7A 4R8 (CA). (74) Agents: ROBINSON, Christopher, J. et al.; Suite 2200, 650 West Georgia Street, P.O. Box 11560, Vancouver, British Columbia V6B 4N8 (CA).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: CLEAVAGE OF CAULOBACTER PRODUCED RECOMBINANT FUSION PROTEINS		
(57) Abstract <p>This invention provides a method for cleaving target proteins from <u>Caulobacter</u> S-layer protein under mild acid conditions. A fusion protein secreted by <u>Caulobacter</u> which includes a target protein and a <u>Caulobacter</u> S-layer secretion signal may be cleaved at an aspartate-proline dipeptide without solubilizing the fusion protein. This method may be carried out while the fusion protein is in an insoluble aggregate which facilitates recovery of the protein. This invention also provides a method of preparing a DNA construct for expression of the fusion protein and a method of preparing the fusion protein.</p>		